

B2end
metal, and wherein the reflectance correlation uses said metal as a secondary film only to correlate, and trigger an endpoint on the substrate as a primary film being etched,
wherein an output being monitored for endpoint detection is not physically representing the primary film being etched.

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12. (Amended) A method of etching a material, comprising:
2 measuring a reflectance signal from a correlation material that is removed from the
3 path of a second material that is to be etched as the second material is etched;
4 correlating the second material etch rate to the reflectance signal from the correlation
5 material; and
6 using the etch ratio between the correlation material and the second material to
7 determine the etch target,
8 wherein said correlation material is isolated from an etching process.

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18. (Amended) The method of claim 12, wherein said second material etch also etches a metal oxide on said metal, and wherein a thin film reflectance correlation uses said metal as a secondary film only to correlate, and trigger an endpoint on the second material as a primary film being etched,
wherein an output being monitored for endpoint detection is not physically representing the primary film being etched.

B5
23. (Amended) A method of etching a semiconductor substrate, comprising:
2 measuring a reflectance signal from an opaque material deposited on said
3 semiconductor substrate as the semiconductor substrate is being etched;
4 correlating the semiconductor substrate etch rate to the reflectance signal from the
5 opaque material; and
6 using the etch relation between the semiconductor substrate and the opaque material
7 to determine the etch target,
8 wherein said opaque material is isolated from an etching process.

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29. (Amended) The method of claim 23, wherein said opaque material comprises metal

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having a metal oxide thereon, and said substrate etch also etches said metal oxide on said metal, and wherein the reflectance correlation uses said metal as a secondary film only to correlate, and trigger an endpoint on the substrate as a primary film being etched,
wherein an output being monitored for endpoint detection is not physically representing the primary film being etched.

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Please add the following new claims.

-- 31. The method of claim 8, wherein a reflectivity of said metal and a reflectivity of said anti-reflective metal oxide are different.

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32. The method of claim 19, wherein a reflectivity of said metal and a reflectivity of said anti-reflective metal oxide are different.

33. The method of claim 30, wherein a reflectivity of said metal and a reflectivity of said anti-reflective metal oxide are different. --
